

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFIRMATION NO.

 09/764,911
 01/18/2001
 Yoshiharu Chikazawa
 PA000002
 8193

 7590
 02/17/2004
 EXAMINER

 JOSEPH S. TROPOLI
 PARKER, KENNETH

JOSEPH S. TROPOLI THOMSON MULTIMEDIA LICENSING INC. PATENT OPERATIONS, TWO INDEPENDENCE WAY P.O. BOX 5312 PRINCETON, NJ 08543-5312

ART UNIT PAPER NUMBER
2871

DATE MAILED: 02/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<u>^</u>		Applicati	ion No	Applicant(s)	- P
				CHIKAZAWA, YOSHIHAR	11
Office Action Summary		09/764,9		Art Unit	
	Office Action Gammary	Examine			
	The MAILING DATE of this communication	Kenneth A		2871	
Period fo		i appears on ur	e cover sneet vi	iai iic concoponaciic aaaree	
THE : - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication a period for reply specified above is less than thirty (30) days, is period for reply is specified above, the maximum statutory pare to reply within the set or extended period for reply will, by sareply received by the Office later than three months after the need patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no ex n. a reply within the sta eriod will apply and v statute, cause the ap	vent, however, may a tutory minimum of thi vill expire SIX (6) MOI plication to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communical BANDONED (35 U.S.C. § 133).	iion.
1)⊠	Responsive to communication(s) filed on 1	<u>10/27/2003</u> .			
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposit	ion of Claims				
5)□ 6)⊠ 7)□	Claim(s) 1 and 3-13 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1, 3-13 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.				
		TIGIOT GIOGRAFIT			
• •	ion Papers The specification is objected to by the Exar	miner			
10)	The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the co The oath or declaration is objected to by the	accepted or bothe the drawing(s) orrection is requi	be held in abeya red if the drawing	nce. See 37 CFR 1.85(a). ı(s) is objected to. See 37 CFR 1.12	
	under 35 U.S.C. §§ 119 and 120				
12) \(\text{\tint{\text{\tinit}}\\ \text{\tint{\text{\te}\text{\text{\text{\text{\text{\text{\text{\text{\tin}\text{\tex{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\texi}\text{\text{\texi}\text{\text{\texi}\text{\text{\texi}\text{\texi}\til\titt{\text{\texi{\text{\texi{\texi{\text{\texi}	Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority documed to Certified copies of the priority documed to Certified copies of the priority documed to Certified copies of the certified copies of the application from the International Business to Certified detailed Office action for a Certified copies of the application from the International Business to Certified to Certified Copies of the Certified Copies of the Acknowledgment is made of a claim for done of Certified Certified Certified Copies of the International Business to Certified Certified Copies of the International Business to Certified Certified Copies of the International Business to Certified Copies of the priority document is made of a claim for done certified Certified Copies of the priority document Certified Certified Copies of the priority document Certified Certified Certified Certified Certified Certified Certified Cert	ments have been priority documureau (PCT Rualist of the cernestic priority une first sentence provisional amestic priority unestic priority unestically and priority unestic	en received. en received in A nents have been ale 17.2(a)). tified copies no under 35 U.S.C e of the specific application has l under 35 U.S.C	Application No In received in this National Stage It received. It is \$ 119(e) (to a provisional application or in an Application Data Stage open received. It is \$ 120 and/or 121 since a special received.	ineet.
2) Notice	nt(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948 mation Disclosure Statement(s) (PTO-1449) Paper No	8) o(s)		Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)	•

Application/Control Number: 09/764,911

Art Unit: 2871

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 3-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The language "integral photography type apparatus" is indefinite, as there is no line between where devices are of the integral photography type and where they are not. Nearly all stereo display systems using lens arrays or parallax barriers operate on the same principal as integral photography, but are not true integral photography as they do not use a continuous film and take a photo at each lens in the array. Some use the same principal and have as little as two side by side images, and some then take those two side by side images and duplicate them and send them to multiple viewing zones to create multiple viewing windows, then some applying additional varying effect. As they stereo or multi view display keep varying from the integral photography type further and further, there no way to determine where the line is between "integral photography type" and "not integral photography type".

Claim Rejections - 35 USC § 103

Claims 1, 3-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gulick Jr 6046848 in view of Spruck 5978143, Zeiss DE 29612054U, Sugihara et al IEICE, and Sugihara et al SID.

Application/Control Number: 09/764,911

Art Unit: 2871

Lacking is the explicit disclosure that the image converges virtually to a point behind the arrays, and the relative movement and its associated details. All of the secondary references show the movement of the arrays relative to each other for the benefit of enabling the user to move and/or to keep accommodation and vergence to the same distance for better user comfort. Therefore, it would have been obvious to one of ordinary skill, in the device of Gulick Jr, to employ the relative movement details as claimed for the benefit on enabling user movement and and/or to keep accommodation and vergence to the same distance for better user comfort.

The rays virtually converging is an intended use limitation, as it is dependent upon the information to be display (if the image is to be far or near), and therefore it would have also been obvious to one of ordinary skill in order to enable display of arbitray distance images.

Manual control would have been obvious to one of ordinary skill compared to automatic as it would have been less costly then any automatic control, and to enable the use to find the most confortable setting.

Response to Arguments

Applicant's arguments, with respect to the rejection(s)of claim(s) 1-13 have been fully considered and are persuasive. Therefore, the rejections have been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of the references applied above.

Application/Control Number: 09/764,911

Art Unit: 2871

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please note several references which can be construed as of the integral photography type having distance adjustability of the arrays.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth A Parker whose telephone number is 571-272-2298. The examiner can normally be reached on 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-1562.

Kenneth A Parker Primary Examiner Art Unit 2871